

13000 GeV pp

Z+Jet

Scalar $\Sigma(p_T)$ (ATLAS UE in Z production)

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.170 default

 $1/N_{\text{ch}} dN_{\text{ch}}/dp_T$ [GeV]

1.2

1.0

0.8

0.6

0.4

0.2

0

Rivet 3.1.10, $\geq 300k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1735531

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

2

4

 p_T [GeV]